

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
22 January 2004 (22.01.2004)

PCT

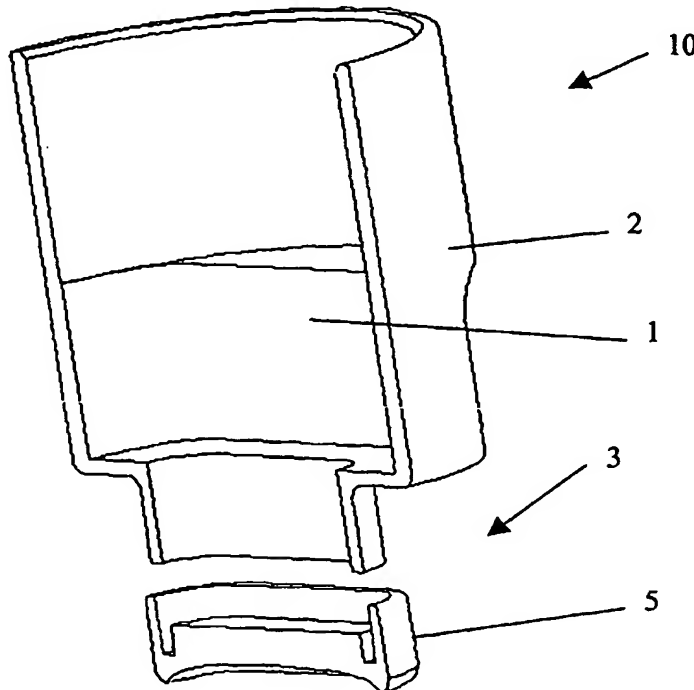
(10) International Publication Number  
WO 2004/006774 A2

- (51) International Patent Classification<sup>7</sup>: A61B 8/00 (74) Agents: SMITH, Gregory, Scott et al.; Gregory Smith & Associates, 3900 Newpark Mall Road, Suite 317, Newark, CA 94560 (US).
- (21) International Application Number: PCT/US2003/021899 (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (22) International Filing Date: 14 July 2003 (14.07.2003) (25) Filing Language: English (26) Publication Language: English
- (30) Priority Data: 60/395,676 12 July 2002 (12.07.2002) US (84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
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- Published:  
— without international search report and to be republished upon receipt of that report

[Continued on next page]

(54) Title: ULTRASOUND INTERFACING DEVICE FOR TISSUE IMAGING

Cross-Sectional view of device with molded window component.



(57) Abstract: A device (10) used with high frequency ultrasound provides a replaceable barrier between the ultrasound transducer and the tissues being imaged. The device (10) provides an acoustic pathway of minimal effect on the ultrasound signals, and furthermore provides for a safety barrier between a mechanical scanner and the tissues being imaged. The configuration of the device (10) allows it to function as a standoff for the ultrasound transducer to place the focus of the ultrasound beam at the desired depth of tissue for imaging. In addition, the device (10) may be sterilized and replaced as needed, providing sterile tissue contact surfaces. The device (10) has additional features, which are especially advantageous for diagnosis and surgery of the eye.